

# Release A CDR RID Report

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<b>Review</b>	SDPS/CSMS	
<b>Originator Ref</b>		
<b>Priority</b>	2	

**Section**

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**Category Name** DAAC Operations

**Actionee** ECS

**Sub Category**

**Subject** Testing of new ESDTs

## **Description of Problem or Suggestion:**

New ESDTs - especially the DLL component - will have to be tested before the DAAC can allow them to go operational. There appears to be no mechanism to isolate these tests in order to prevent disruption of on-going DAAC operations.

## **Originator's Recommendation**

Something along the lines of the Algorithm I&T string is needed, at the DAAC for tests of the Data Server in this situation and probably others.

## **GSFC Response by:**

## **GSFC Response Date**

**HAIS Response by:** Mark Huber

**HAIS Schedule** 9/6/95

**HAIS R. E.** Mark Huber

**HAIS Response Date** 9/29/95

We agree with the reviewer that new ESDTs, and their service components realized in DLLs, will need to be tested before they can be brought into the main Data Server configuration(s).

Our ops concept on testing new services and ESDTs are:

Modified/New ESDT and Services

1. The development staff would use local resources to code and test a new algorithm, using test data stored locally on the development station and lightweight test drivers/shells to invoke the algorithms.
2. Once confidence is established on the functionality of the algorithm, the next step would be to integrate it into a test Data Server. The DAAC would instantiate a new "test" Data Server that would have installed the existing ESDT along with the new service. The basic Data Server software is being designed so that it can be configured with an Archive component that is limited to a local disk. This "disk-based" Data Server approach will fully support Data Server functions, just have limited Archive holdings. EP6 and IR-1 will both utilize a disk-based Data Server configuration. Test Data Server will take full advantage of this.
3. This Data Server could make use of private advertisements so that only development and test staff would be able to access its services. Given our approach to mode management, it should be possible to establish this test Data Server on the operational system if there are compelling reasons to do so (i.e., need for larger amounts of data than is possible for a test system, operational data base read-only access, etc.). In other cases it may be more prudent to run the Data Server software on a test platform (disk-based approach).
4. Once it is established that test data server operates correctly, data server can be integrated with product data server software and tested in stand alone mode (i.e., during scheduled down time for testing, once testing confirms proper operations of new ESDT it can be included in the production data server for operation).

**Status** **Closed**

**Date Closed** **10/18/95**

**Sponsor** **Hunolt**

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**Attachment if any**

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